PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION		See Form PCT/IPEA/416		
SLRE.103540/	International filing date (day/mo		Priority date (day/month/year)		
International application No.	i .	omnyeu.)	22 August 2003 (22.08.2003)		
PCT/US04/26700 International Patent Classification (IPC)	18 August 2004 (18.08.2004)		ZZ Pidgust 2003 (ZZ.co.z.)		
	or national classification and if				
IPC: Please See Continuation Sheet USPC: 504/101,194,284,317,336,354;	514/130,263.2,419,450,543,557,57	570,573,617,732,76	2		
Applicant					
STOLLER ENTERPRISES, INC.			1 1 1 this International Preliminary		
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
This REPORT consists of	a total of $\frac{4}{4}$ sheets, including	g this cover sheet.			
 This report is also accomp 	anied by ANNEXES, comprisi	sing:			
a. (sent to the application	ant and to the International Bu	ureau) a total of _	sheets, as follows:		
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
	ations relating to the following	g items:			
	Basis of the report				
	riority		the decade of		
	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	ack of unity of invention				
Box No. V i	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement				
	Certain documents cited				
Box No. VII	Certain defects in the international application				
Box No. VIII (Certain observations on the inte				
Date of submission of the demand	Da	ate of completion	of this report		
08 March 2006 (08.03.2006)	16	5 June 2006 (16.06.	2006		
Name and mailing address of the IPEA/ Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	! !	uthorized office	-BMGF		
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 571-272-1600					
Facsimile No. (571) 273-3201 Form PCT/IPEA/409 (cover sheet)(April		opphone rior err			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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* If item 4 applies, some or all of those sheets may be marked "superseded." Form PCT/IPEA/409 (Box No. I) (April 2005)	* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/26700

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Statement Novelty (N)	Claims 1-74 YES Claims NONE NO		
Inventive Step (IS)	Claims NONE YES Claims 1-74 NO		
Industrial Applicability (IA)	Claims 1-74 YES Claims NONE NO		

2. Citations and Explanations (Rule 70.7) Claims 1-74 lack an inventive step under PCT Article 33(3) as being obvious over Frederick (US 4,675,327) in view of Wei (CN 1262037A).

Fredrick teaches antimicrobial embalming fluids comprising the synergistic combination of a disinfectant and a plant hormone or plant growth regulator (columns 2-3). The auxinic hormone NAA was tested in Example VI at a concentration of 1.0 mM resulting in a zone of inhibition of 10.0 mm, thus indicating that the antimicrobial property of NAA was known.

Wei teaches that plant auxin was a known antibacterial and antiviral agent.

Thus it would have been *prima facie* obvious to the ordinary artisan at the time the invention was made to have used plant hormones such as auxins as antimicrobial agents because the prior art teaches that such activity was known for this class of agents. Since application for antimicrobial purposes was known, at concentrations below the plant hormone activity threshold, it would be apparent that other effects of such applications, including inhibition of insect infestation, would necessarily follow from such applications. Further, absent a showing of criticality, it would be obvious to apply the compositions to any plant or plant part, including seed.

Claims 1-74 meet the criteria set out in PCT Article 33(4), and thus possess industrial applicability because the subject matter claimed can be made or used in industry.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/26700

Supplemental Box
In case the space in any of the preceding boxes is not sufficient.
Continuation of:
Continuation of IPC: A01N 31/08(2006.01),37/10(2006.01),43/38(2006.01),57/14(2006.01);A01P 3/00(2006.01),1/00(2006.01),21/00(2006.01)